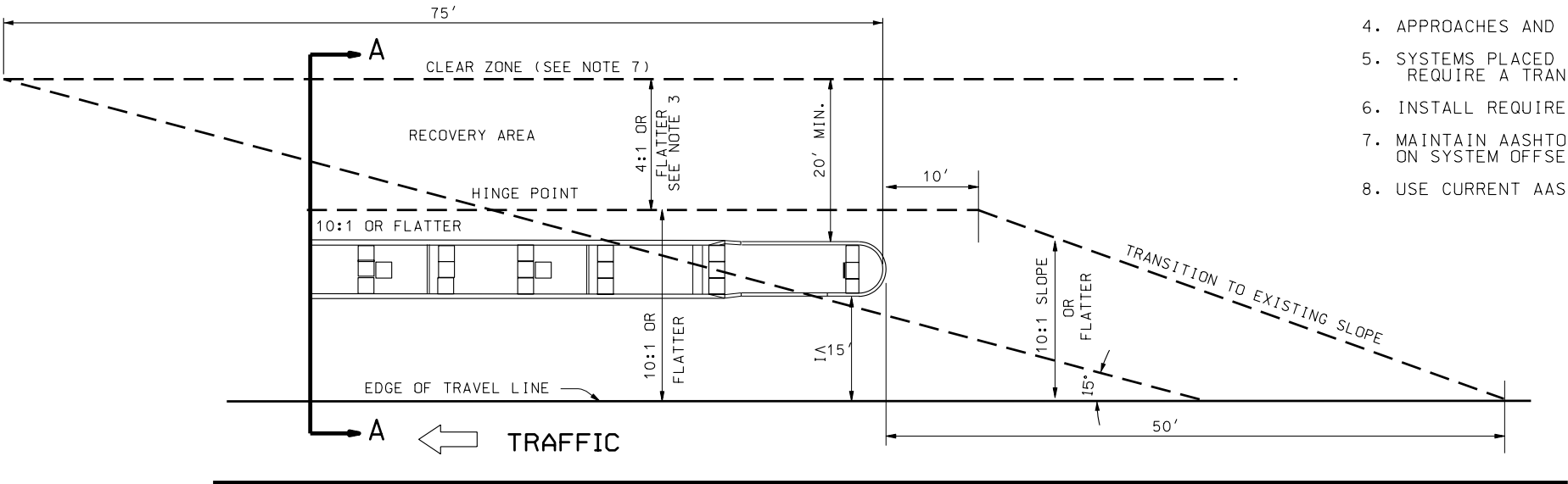
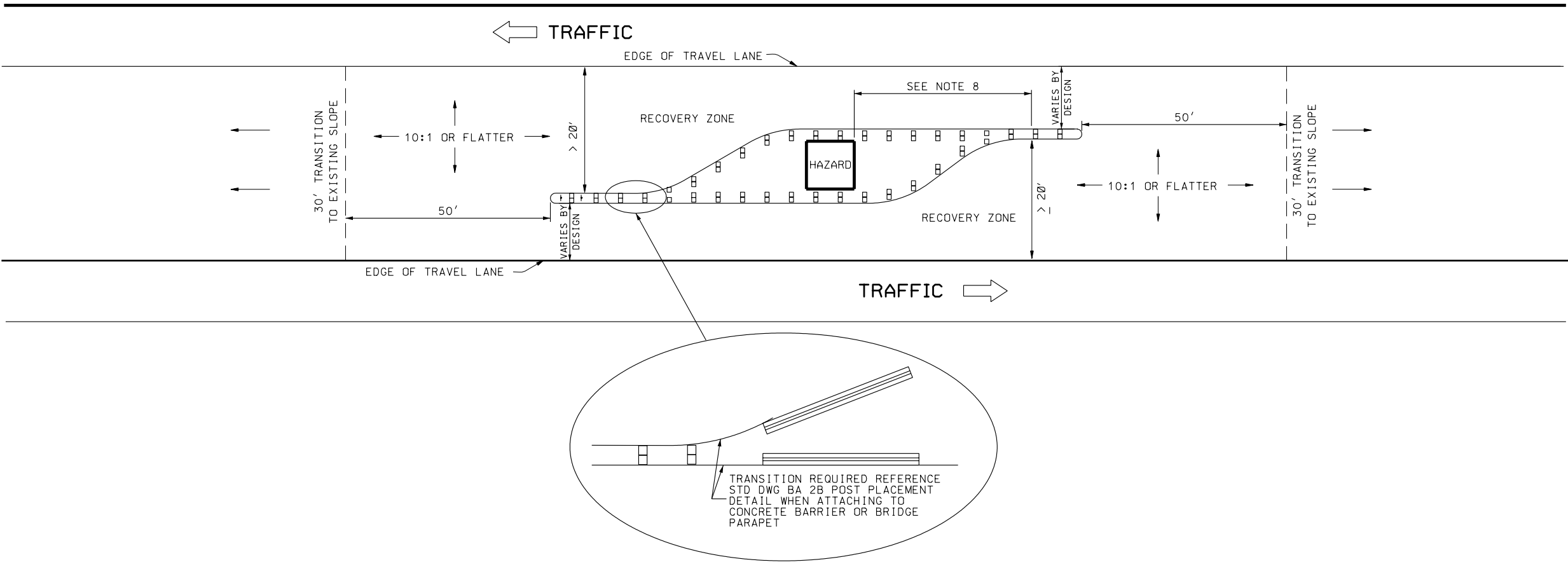


SHOULDER APPLICATION

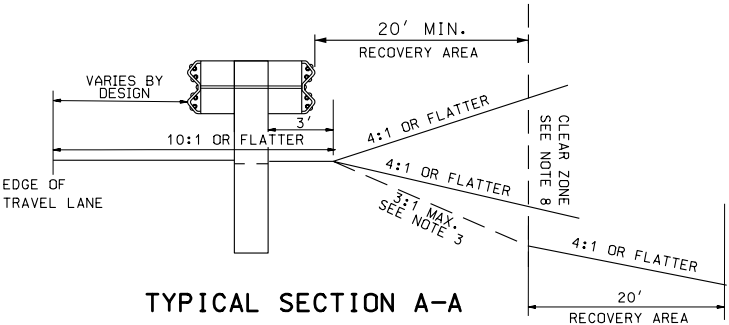


MEDIAN APPLICATION



NOTES FOR ATTENUATOR TYPES C, PLACEMENT DRAWING

1. THE C.A.T., CRASH CUSHION ATTENUATING TERMINAL, MANUFACTURED BY SYRO, INC. AND THE BRAKEMASTER, MANUFACTURED BY ENERGY ABSORPTION SYSTEMS, ARE THE APPROVED TYPE C CRASH CUSHIONS. THESE SYSTEMS ARE PRIMARILY USED WITH SINGLE AND DOUBLE FACED GUARDRAIL, AND CAN TRANSITION INTO CONCRETE BARRIER OR BRIDGE PARAPETS. INSTALL ACCORDING TO MANUFACTURE'S AND UDOT SPECIFICATIONS.
2. THE C.A.T. REQUIRES A GRADED SURFACE. THE BREAKMASTER REQUIRES A STANDARD FIRM SURFACE OR COMPACTED SUBBASE AS A MINIMUM. COMPLETE ALL GRADING REQUIREMENTS PRIOR TO INSTALLATION OF THE SYSTEM.
3. USE 10:1 SLOPE TO ALL APPROACHES TO THE SYSTEM. USE A 4:1 SLOPE IN RECOVERY AREA WHEN SYSTEM IS USED IN A SHOULDER APPLICATION. A 3:1 FILL SLOPE MAY BE USED AND A RECOVERY AREA ESTABLISHED AT THE TOE OF 3:1 SLOPE.
4. APPROACHES AND RECOVERY AREA TO BE FREE OF FIXED OBJECTS.
5. SYSTEMS PLACED IN LOCATIONS WHERE TRAFFIC IS APPROACHING FROM THE REAR REQUIRE A TRANSITION ELEMENT AS PER MANUFACTURER'S SPECIFICATIONS.
6. INSTALL REQUIRED MARKINGS AS PER STD DWG CC 1.
7. MAINTAIN AASHTO CLEAR ZONE FOR SPEEDS GREATER THAN 40 MPH. DEPENDING ON SYSTEM OFFSET. CLEAR ZONE MAY EXTEND OUTSIDE OF RECOVERY AREA.
8. USE CURRENT AASHTO ROADSIDE DESIGN GUIDE TO DETERMINE LENGTH OF NEED.



REVISIONS				REMARKS
NO.	DATE	APPR.	NO.	

UTAH DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION SALT LAKE CITY, UTAH	RECOMMENDED FOR APPROVAL		DATE	
	CHAIRMAN STANDARDS COMMITTEE		JULY 03,2002	
	APPROVED		JULY 03,2002	
	DEPUTY DIRECTOR		DATE	

GRADING & PLACEMENT DETAIL CRASH CUSHION TYPE C	STANDARD DRAWING TITLE
STD DWG	
CC	5